Cell Surface Glycoprotein MUC18 (MCAM) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cell surface glycoprotein MUC18 (Mcam), Recombinant Protein
Full Product Name	Recombinant Mouse Cell surface glycoprotein MUC18 (Mcam), partial
Product Gene Name	Mcam recombinant protein
Product Synonym Gene Name	Mcam
Sequence	VPGEEKQ PVPTPDLVEA EVGSTALLKC GPSRASGNFS QVDWFLIHKE RQILIFRVHQ GKGQREPGEY EHRLSLQDSV ATLALSHVTP HDERMFLCKS KRPRLQDHYV ELQVFKAPEE PTIQANVVGI HVDRQELREV ATCVGRNGYP IPQVLWYKNS LPLQEEENRV HIQSSQIVES SGLYTLKSVL SARLVKEDKD AQFYCELSYR LPSGNHMKES KEVTVPVFYP AEKVWVEVEP VGLLKEGDHV TIRCLTDGNP QPHFTINKKD PSTGEMEEES TDENGLLSLE PAEKHHSGLY QCQSLDLETT ITLSSDPLEL LVNYVSDVQV NPTAPEVQEG ESLTLTCEAE SNQDLEFEWL RDKTGQLLGK GPVLQLNNVR REAGGRYLCM ASVPRVPGLN RTQLVSVGIF GSPWMALKER KVWVQENAVL NLSCEASGHP QPTISWNVNG SATEWNPDPQ TVVSTLNVLV TPELLETGAE CTASNSLGSN TTTIVLKLVT LTTLIPDSSQ TTGLSTLTVS PHTRANSTST EKKLPQPESK GVV
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	66,901 Da
Sequence Positions	24-563
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q8R2Y2
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Mcam recombinant protein	MBS1279663 is a recombinant protein targeting Mcam. Also known as Recombinant Mouse Cell surface glycoprotein MUC18 (Mcam), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Mcam recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Mcam. It may not necessarily be applicable to this product.

NCBI GI #	160333901
NCBI GeneID	84004
NCBI Accession #	NP_075548.2

UniProt Primary Accession #	Q8R2Y2
UniProt Secondary Accession #	Q9EPF1; Q9ESS7; Q9JHQ2; Q9JHQ3
UniProt Related Accession #	Q8R2Y2
GenBank Nucleotide #	NM_023061.2
NCBI Official Full Name	cell surface glycoprotein MUC18 isoform 1
NCBI Official Synonym Full Names	melanoma cell adhesion molecule
NCBI Official Symbol	Mcam
NCBI Official Synonym Symbols	CD146; CD149; Muc18; s-endo; AV025631; 1-gicerin; s-gicerin
UniProt Protein Name	Cell surface glycoprotein MUC18
UniProt Synonym Protein Names	Gicerin; Melanoma cell adhesion molecule; Melanoma-associated antigen MUC18; CD_antigen: CD146
Protein Family	Cell surface glycoprotein
UniProt Gene Name	Mcam
UniProt Synonym Gene Names	Muc18
NCBI Protein Information	cell surface glycoprotein MUC18
UniProt Comments for Mcam	Plays a role in cell adhesion, and in cohesion of the endothelial monolayer at intercellular junctions in vascular tissue. Its expression may allow melanoma cells to interact with cellular elements of the vascular system, thereby enhancing hematogeneous tumor spread. Could be an adhesion molecule active in neural crest cells during embryonic development. Acts as surface receptor that triggers tyrosine phosphorylation of FYN and PTK2/FAK1, and a transient increase in the intracellular calcium concentration ().
Research Articles on Mcam	**1.** These findings identify CD146 as a novel retention signal that traps macrophages within the artery wall, and a promising therapeutic target in atherosclerosis treatment.
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